

United States of America

Department of Transportation — Federal Aviation Administration  
**Supplemental Type Certificate***Number* SA699NW*This certificate, issued to* Larry Gross

*certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 4a of the Civil Air Regulations.*

*Original Product — Type Certificate Number:* A-766*Make:* Universal (Globe)*Model:* GC-1B

*Description of Type Design Change:* Installation of a Lycoming O-320-E3D engine, Sensenich 74DM6-0-60 propeller, throttle quadrant controls (Piper P/N 65850-00) and quadrant pedestal, and associated systems in accordance with Larry Gross photographs 1 through 6.

*Limitations and Conditions:* Data pertaining to this modification are considered inadequate for duplication in other aircraft. This approval is limited to the installation in Universal (Globe) GC-1B, S/N 1350, only. A copy of this Certificate and Addendum SA699NW shall be maintained as part of the permanent records for the modified aircraft.

*This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.*

*Date of application:* October 6, 1978*Date received:**Date of issuance:* January 10, 1979*Date amended:* February 13, 1979

*By direction of the Administrator*  
*Charles C. Schroeder*  
(Signature)

Chief, Engineering and Manufacturing Branch

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.

United States of America  
Department of Transportation—Federal Aviation Administration  
**Supplemental Type Certificate**  
(Continuation Sheet)

February 13, 1979 *Number* SA699NW

SUPPLEMENTAL TYPE CERTIFICATE ADDENDUM NO. SA699NW

The conditions and limitations of the original specification apply except as follows:

This Addendum, which is part of Supplemental Type Certificate No. SA699NW prescribes conditions and limitations under which the STC was issued and meets the airworthiness requirements of Civil Air Regulation 4a.

SUPPLEMENTAL TYPE CERTIFICATE HOLDER: Larry Gross

I. GLOBE GC-1B, 2PCLM (NORMAL CATEGORY) AS MODIFIED BY STC SA699NW

Engine:	Lycoming O-320-E3D
Fuel:	80/87 minimum grade aviation gasoline
Engine Limits:	For all operations - 2700 rpm (150 Hp)
Propeller Limits:	Sensenich 74DM6-O-60 Diameter: 74" maximum; 72" minimum Static Limits: maximum 2400 rpm; minimum 2300 rpm Placards: None
C. G. Range:	(+29.6) to (+33.0) at 1710 pounds
Maximum Weight:	1710 pounds
Oil Capacity:	7 Quarts (Useable)
Instrument Markings:	Oil Temperature: 245°F Oil Inlet (Red Line) Oil Pressure: 60 -90 psi (Green Arc) Cylinder Head Temperature 500°F Bayonet Thermocouples (Red Line)
Serial No. Eligible:	1350 only

*Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.*

- NOTE 1: Current weight and balance report including list of equipment in the certified empty weight must be in the aircraft.
- NOTE 2: In addition to the Placards and Markings required by Type Certificate Data Sheet A1CE, Note 2, apply the following:

- a. Adjacent to fuel filler cap:

CAUTION - USE 80/87 OCTANE  
FUEL OR HIGHER ONLY

- b. Adjacent to or in close proximity to the aircraft identification plate:

LYCOMING O-320-E3D ENGINE  
INSTALLATION, STC SA423NW

- NOTE 3: With the described engine and propeller installation, performance will be at least equal or better than that given in the original FAA Approved Flight Manual for the Universal GC-1B aircraft.

- END -